



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 24, 2019

Carrie Daniels
Authorized Representative for Chemstar, Corp.
Chemstar Corporation
120 Interstate West Parkway
Suite 100
Lithia Springs, GA 30122

Subject: PRIA Label and CSF Amendment – Application to Amend the Product’s Expiration Date; Add Optional Marketing Statements and User Guidelines; Revise CSF Certified Limits; and Add New Manufacturing Site.
Product Name: FloraFresh Floral Quality Care Solution
EPA Registration Number: 46597-3
Application Date: May 2, 2019
Decision Number: 550596

Dear Ms. Daniels:

The amended label and CSF referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF:

- Basic CSF dated 05/02/2019

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the

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website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Michael Varco by phone at 703-347-0403, or via email at Varco.Michael@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "DF", with a long horizontal line extending to the right.

Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

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FloraFresh® Floral Quality Care Solution



[Alternate Brand Names:

- FloraFresh®
- FloraFresh® Floral Antimicrobial Solution
- FloraFresh® Vase Antimicrobial Solution]

Active Ingredient:

Hypochlorous Acid* 0.3%

Other Ingredients99.70%

Total100.00%

*Contains 4000 ppm (0.4%) Free Available Chlorine (FAC)

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p> <p>For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378. For emergencies, call the poison control center 1-800-222-1222.</p>	

(See (side)(back) panel for additional precautionary statements)

Manufactured by:
 CHEMSTAR CORP.
 120 Interstate West Parkway
 Suite 100 Lithia Springs,
 Georgia 30122
 1-800-327-0777

EPA Reg. No.: 46597-3
 EPA Est. No.: [Enter EPA Estab #]
 Net Contents: _____ gallon(s)

Floral Quality Care Solution

For use in 1) Retail establishments, such as: grocery stores, florists, convenience stores, or other stores with fresh floral displays; 2) Wholesale floral establishments that receive, pack, and ship fresh-cut flowers; 3) Growing or harvesting operations engaged in production of fresh-cut flowers.

Water additive to control spoilage, decay, slime and odor-causing (microorganisms) (bacteria) in solutions used for the maintenance and display of fresh flowers

Controls spoilage, decay, and odor-causing non-public health (microorganisms) (bacteria) in floral maintenance/display solutions

Controls spoilage, decay, and odor-causing non-public health (microorganisms) (bacteria) on floral surfaces and waters used for display or storage

Reduces the level of non-public health (microorganisms) (bacteria) on stems or other processed flower surfaces

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

When used as directed, FloraFresh® Floral Quality Care Solution (will):

- (Reduce(s)) (Control(s)) decay, spoilage, slime, or odor-causing non-public health (microorganisms) (bacteria) in flower maintenance or display solutions
- Kill(s) 99.999% of the non-public health organisms *Pseudomonas* and *Enterobacter*
- Effectively kill(s) non-public health pathogens and spoilage organisms in the bucket/vase water
- Clean(s) buckets and vases by eliminating slime build-up and biofilm (green slime) in the water
- Combine(s) antimicrobial properties with a natural floral nutrient to keep all cut flowers fresher longer
- Control(s) (turbidity and) (non-public health microbial) (non-public health bacterial) growth in floral bucket water (to prevent stem blockage, improving water and nutrient uptake and enhance the overall fresh image of your floral department)

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- Control(s) spoilage, decay and odor-causing non-public health (microorganisms) (bacteria) in flower maintenance or display solutions
- Control(s) spoilage, decay and odor-causing non-public health (microorganisms) (bacteria) on stems or other processed flower surfaces

Optional Marketing Claims:

- FloraFresh® Floral Quality Care Solution eliminates bucket scrubbing labor (leaving time for more selling)
- FloraFresh® Floral Quality Care Solution keeps stems free from blockage
- Provides balanced nutrition to cut flowers to maintain vase life and home life for increased customer satisfaction
- Consistently delivers the appropriate, pre-measured amount of product during each bucket fill
- Floral solution formulated to keep your bucket water free from slime build-up
- FloraFresh® Floral Quality Care Solution controls pot-fouling and off odors
- FloraFresh® Floral Quality Care Solution does the heavy work to control biofilm (green slime) that builds up on your floral buckets and vases
- Simplifies: use one solution for all cut flowers
- (Keep floral) (Flowers stay) fresher, longer
- (Wash floral buckets less) (Spend less time scrubbing buckets & more time designing floral arrangements)
- The Single Solution for All Cut Flowers

To treat fresh-cut flowers or solutions used for the maintenance or display of fresh-cut flowers:

- This product may be used in water or solution placed in vases, buckets, or other transport containers to reduce the levels of spoilage, decay, slime, or odor-causing non-public health (microorganisms) (bacteria).
- FloraFresh® Floral Quality Care Solution will control the growth of spoilage, odor, slime, or decay-causing non-public health (microorganisms) (bacteria) in floral maintenance or display solutions.
- FloraFresh® Floral Quality Care Solution will control the growth of spoilage, odor, slime, or decay-causing non-public health (microorganisms) (bacteria) on stems or other processed flower surfaces.

[Begin Application Directions – OPTION 1]**Use Instructions:****(Wall-Mount Diluter)**

1. Dispense FloraFresh® Floral Quality Care Solution into desired vase, bucket, or other appropriate container. The wall-mounted diluter provides a solution of FloraFresh® Floral Quality Care Solution containing approximately 25-60 parts per million (ppm) of free available chlorine (FAC).
2. Re-cut stems using clean shears and place desired stems or flowers into FloraFresh® Floral Quality Care Solution immediately. Ensure a minimum contact time of two (2) minutes to achieve a 99.999% kill of the non-public health organisms *Pseudomonas* and *Enterobacter*.)

(Floral Dip Use)

1. Alternatively, FloraFresh® Floral Quality Care Solution can be used to dip fresh stems as a surface cleaner prior to immersion in a holding solution.
2. Dispense FloraFresh® Floral Quality Care Solution into desired vase, bucket, or other appropriate container.
3. Immerse freshly cut flower stems into FloraFresh® Floral Quality Care Solution for a minimum of two (2) minutes
4. Remove flowers from solution and place immediately for display)

Use Controls:

1. The concentration of free available chlorine (FAC) shall range from 25-60 ppm.
2. Test strips will be supplied to ensure that the FAC of the treatment solution is maintained above 25 ppm.
3. If the free available chlorine falls below 25 ppm, check to ensure that concentrate jug is dispensing correctly, or replace if empty.

[End Application Directions – OPTION 1]**[Begin Application Directions – OPTION 2]****(Use Instructions and Controls)/(General User Guidelines)****Step 1**

- Remove cap on bottle.
- Screw on cap adapter connected to dispensing system until tight.

Step 2

- Place bottle of FloraFresh under the sink.
- Be sure to monitor bottle fill level and replace bottle as needed.

Step 3

- Squeeze dispense nozzle to fill buckets with FloraFresh solution.

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Step 4

- Test the FloraFresh Solution concentration at the beginning of a bucket change out by doing a **quick** dip of the test strip in a bucket.
- After dipping, shake test strip to remove excess liquid.

Step 5

- Wait **up to 30 sec.** after dipping and compare the center of the strip to the indicator pad.
- The FloraFresh solution target concentration is 25-60 ppm.

Step 6

- Re-cut stems using clean shears and place desired stems or flowers into FloraFresh® Floral Quality Care Solution immediately. Ensure a minimum contact time of two (2) minutes to achieve a 99.999% kill of the non-public health organisms *Pseudomonas* and *Enterobacter*.

Use Directions

2 Deliveries Per Week

- Change and refill all buckets on each delivery.

3 Deliveries Per Week

- Change and refill all buckets on the 1st and 3rd delivery.
- On 2nd delivery, consolidate bouquets and refill only buckets receiving new flowers.

Troubleshooting

No Flow From Dispense Nozzle

1. Check water flow at the sink to see if there is normal flow.
2. If there is no/limited flow at the sink, call store maintenance.

FloraFresh Solution is not between 25 – 60 ppm

1. Check to see if FloraFresh bottle is empty.
2. Check to see if water pressure and flow at sink is normal.
3. If there is no/limited flow at the sink, call store maintenance.
4. If flow at the sink is normal, call for service—1-800-838-9542.

[End Application Directions – OPTION 2]

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal, or cleaning of equipment.

Pesticide Storage: Store the product upright and away from sunlight. Keep container tightly closed and store in a cool, well-ventilated area.

Pesticide Disposal: Wastes from use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.

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Batch (code) (number) XXXXXX

[To be printed on bottle] (Expiration Date) (Exp Date): [Six months from date of production]

(This product is covered by US Patent #9,006,140; US Patent # 9,126,874)

[Optional Marketing Graphics]

